PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

ITOH, Tadahiko

32nd Floor, Yebisu Garden Place Tower, 20 -3, Ebisu 4-chome, Shibuya -ku, Tokyo 1506032 Japan



WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43 bis.1)

Date of mailing

		(day/month/year)	31.01.2006	
Applicant's or agent's file reference R05214PCT		FOR FURTHER ACTION See paragraph 2 below		
International application No. PCT/JP2005/021501	International filing date 17.11.		Priority date (day/month/year) 22.11.2004	
International Patent Classification (IPC) of Int.Cl. G11B7/125 (2006.0.			G11B7/135(2006.01)	
Applicant RICOH COMPANY, LTD.				

1.	This o	pinion contains	indications relating to the following items:
	V	Box No. I	Basis of the opinion
		Box No. II	Priority
		Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
		Box No. IV	Lack of unity of invention
	V	Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
		Box No. VI	Certain documents cited
	П	Box No. VII	Certain defects in the international application
		Box No. VIII	Certain observations on the international application
2.	FUR1	THER ACTION	
	Internother	national Prelimir r than this one to	ernational preliminary examination is made, this opinion will be considered to be a written opinion of the nary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority of the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written mational Searching Authority will not be so considered.
	a writ	itten reply togeth	provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA ner, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Formore the expiration of 22 months from the priority date, whichever expires later.
	For fi	urther options, s	ee Form PCT/ISA/220.
3.	For fi	urther details, se	te notes to Form PCT/ISA/220.

1	Date of completion of this opinion 10.01.20	06	_		
	Name and mailing address of the ISA/JP	Authorized officer		5D 984	47
	Japan Patent Office	Hajime Suzuki			
	3-4-3, Kasumigaseki, Chiyoda-ku, Tokyo 100-8915, Japan	Telephone No. +81-3-3581-1101	Ext.	3551	

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2005/021501

Во	x No. I	Basis of the opinion
1.	With reg	ard to the language, this opinion has been established on the basis of:
	_	international application in the language in which it was filed
		ranslation of the international application into , which is the language of a
		nslation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).
2.		ard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the nvention, this opinion has been established on the basis of:
	a. type of	f material
	 1	a sequence listing
	[]	table(s) related to the sequence listing
	h format	of material
	U. IOIMat	on paper
	П	in electronic form
	•	
	c. time of	f filing/furnishing
		contained in the international application as filed
		filed together with the international application in electronic form
		furnished subsequently to this Authority for the purposes of search
3.	file	addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been ed or furnished, the required statements that the information in the subsequent or additional copies is identical to that the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4	Addition	al comments:
٦.	Addition	as confinences.
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

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Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability;
1	citations and explanations supporting such statement

Statement			
Novelty (N)	Claims	5-20, 25-36, 38-39, 41-42	YES
•	Claims	1-4, 21-24, 37, 40	NO
Inventive step (IS)	Claims	5-20, 25-36, 38-39, 41-42	YE
	Claims	1-4, 21-24, 37, 40	NO NO
Industrial applicability (IA)	Claims	1-42	YE
	Claims		NO

2. Citations and explanations:

- D1 = JP 2004-103093 A (RICOH COMPANY, LTD.) 2004.04.02, Paragraph numbers 0034,0044, Fig 9 (Family: none)
- D2 = JP 2003-317298 A (ASAHI GLASS COMPANY, LIMITED) 2003.11.07, Paragraph numbers 0023,0043-0045, Figs 1-3,6 (Family:none)
- D3 = JP 2004-158102 A (NEC CORPORATION) 2004.06.03, Paragraph numbers 0015,0023-0024,0105, Figs 17,19 (Family:none)
- D4 = US 2002/0097504 Al (Kazuya Kitamura) 2002.07.25, Paragraph numbers 0073,0077,0081,0226, Fig 8 & JP 2002-140831 A & NL 1019266 A
- D5 = JP 2004-206763 A (Hitachi Maxell, Ltd.) 2004.07.22, Paragraph numbers 0019,0023-0025, Fig 1 (Family: none)

The subject matter of claim 1, 21, 37, 40 does not meet the requirements with respect to novelty and inventive step. D1-D5 disclose the point containing an aberration generation device provided between the light source and the objective lens, configured to generate coma aberration for the beam focused by the objective lens, based on a detected value from a device configured to detect a degree of tilt of the optical recording medium.

The subject matter of claim 2, 22 does not meet the requirements with respect to novelty and inventive step. D3-D4 disclose that the aberration generation device is composed of two lenses to generate spherical aberration and coma aberration.

The subject matter of claim 3, 23 does not meet the requirements with respect to novelty and inventive step. D1-D2, D5 disclose that the aberration generation device has an electrode pattern configured to generate coma aberration and an electrode pattern configured to generate spherical aberration and is a liquid crystal element that sandwiches a liquid crystal layer.

The subject matter of claim 4, 24 does not meet the requirements with respect to novelty and inventive step. D1-D3 disclose that the aberration generation device generates coma aberration in a radial direction of the optical recording medium.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

In case the space in any of the preceding boxes is not sufficient.

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Supplemental Box

in the art.

Continuation of: VThe subject matter of claim 5-20, 25-36, 38-39, 41-42 is neither disclosed in any of the documents cited in the ISR nor obvious to a person skilled